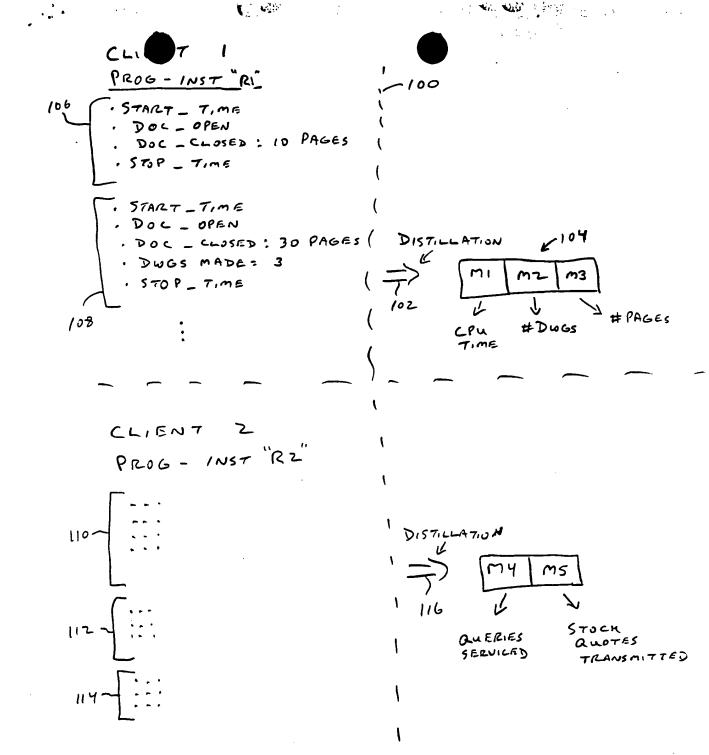
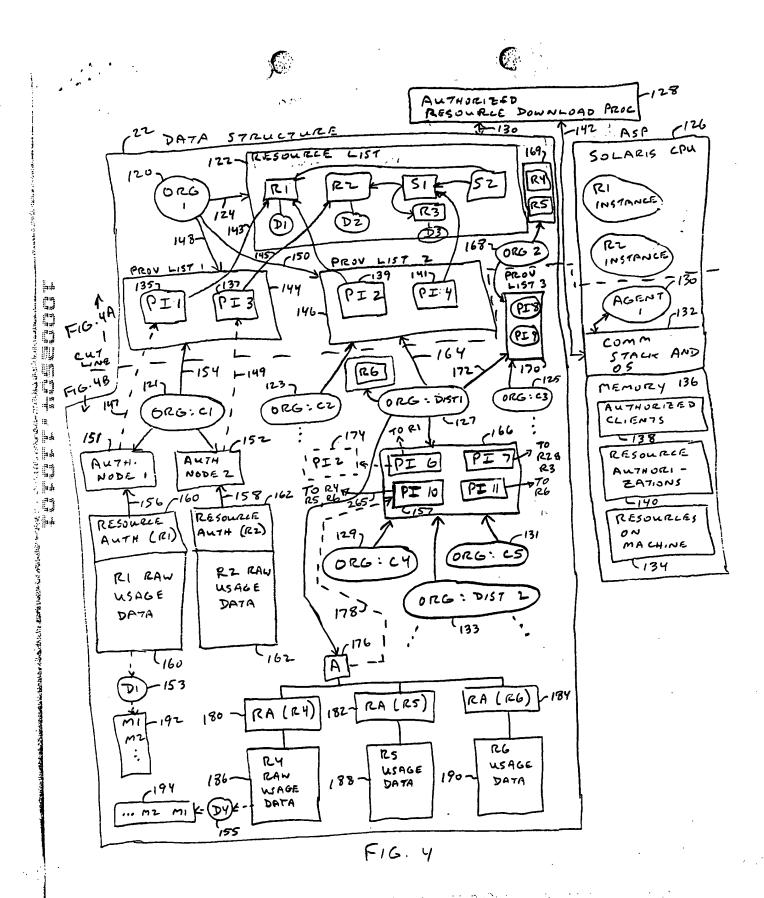


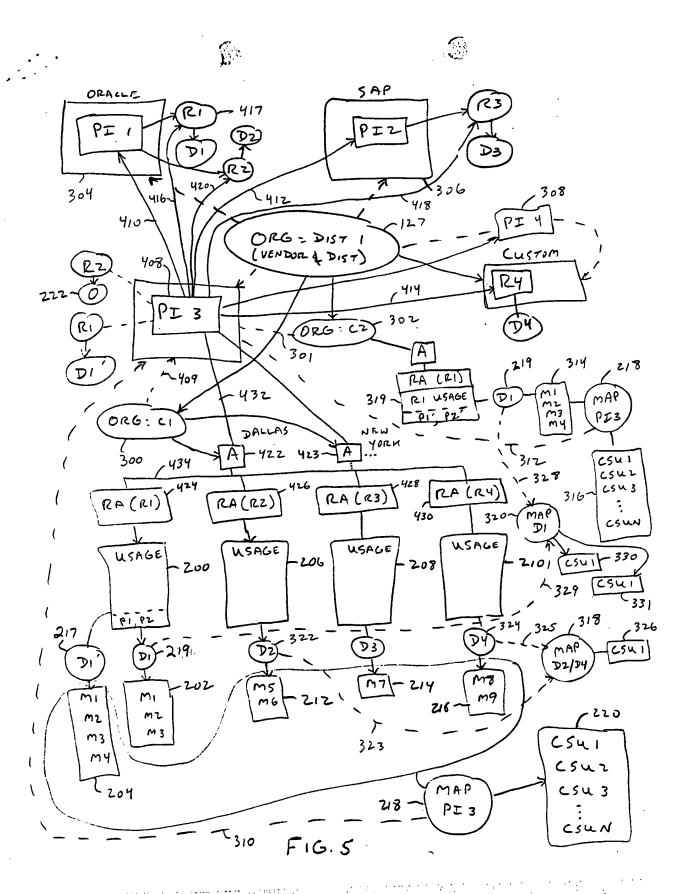
F16. 1

( 132 34 W 31 R2 33 ORG. 1 H44 UENDOR 52 BROWSER ( 50 142 54 56 88 CLIENT DIST. 1 CLIENT 86 -66 40 36 38 CONFIG RI USACE CLIENT 3 12 DATA USACE 74 RI WAGE Rz usage 105 RZ USAGE 82 51 92 87 89 60 CLIENT 3 CLIENT m [配 70 CLIENT RZ 2 [2] 90 P157. 1 RI CLIENT 4 RZ F16.2 BROWSER



F16.3





#### OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING

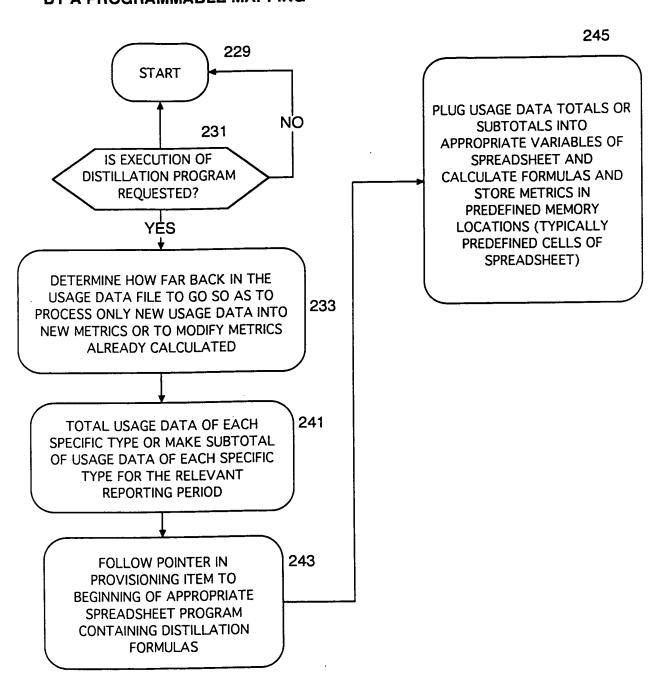


FIG. 6A

#### OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

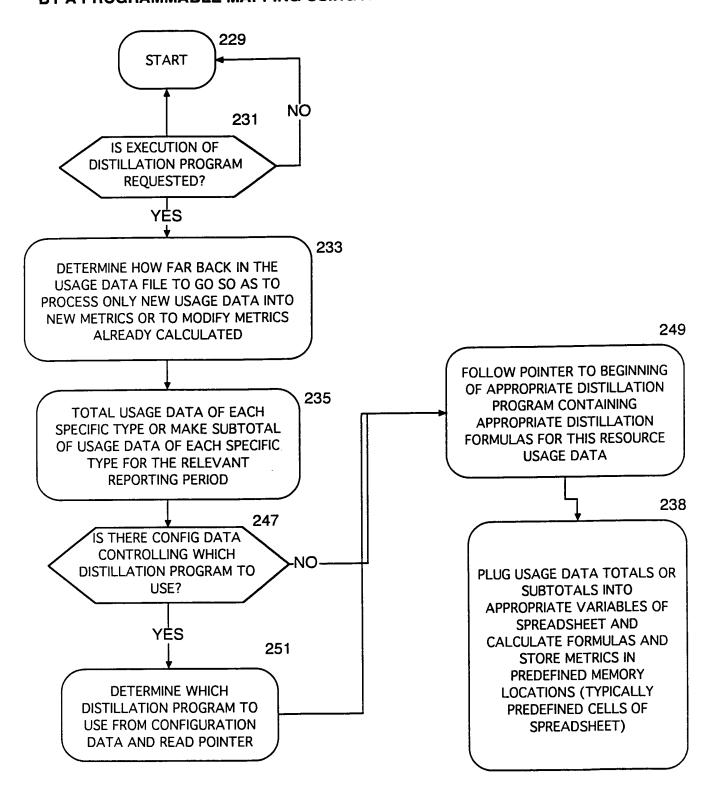
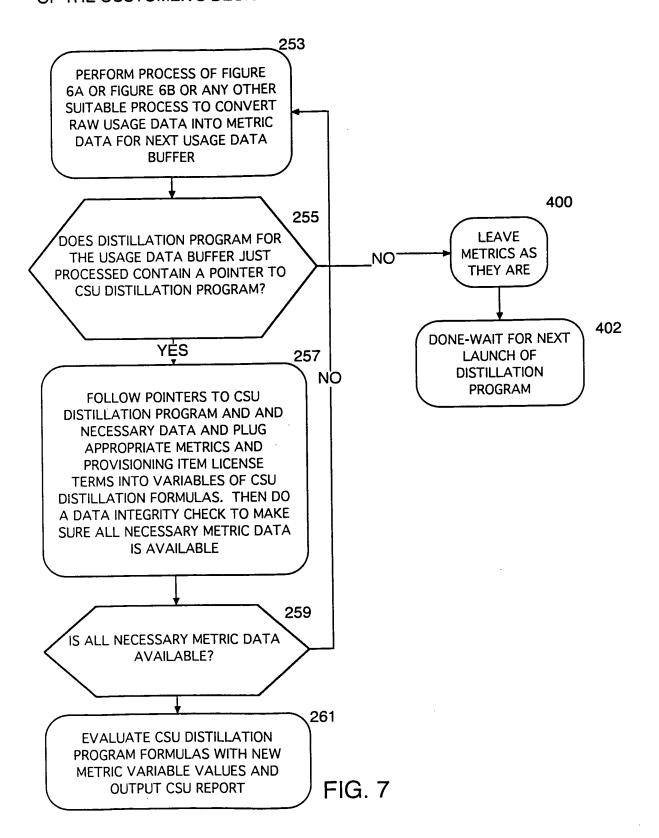
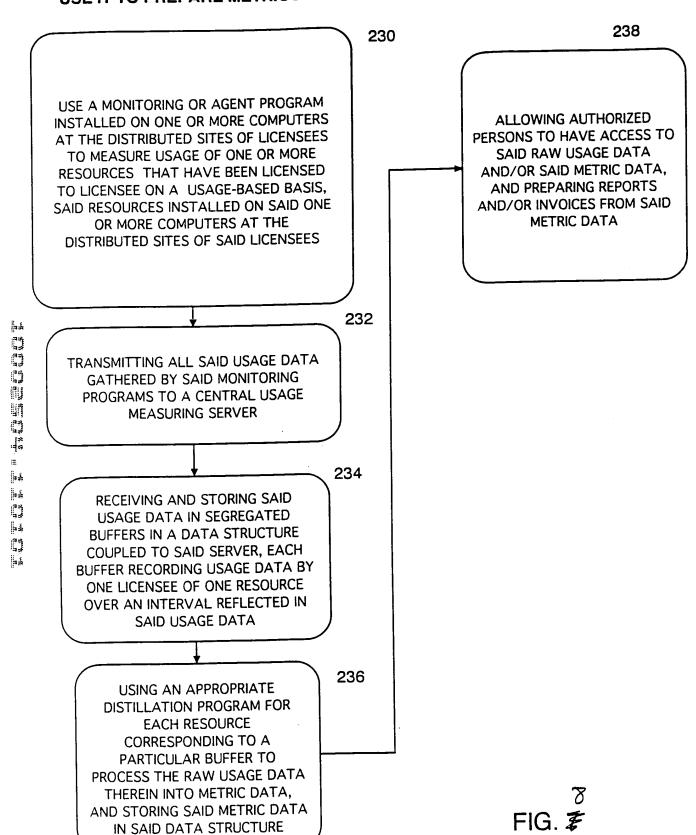


FIG. 6B

PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN



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## PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND ALLOW RESTRICTED ACCESS THERETO

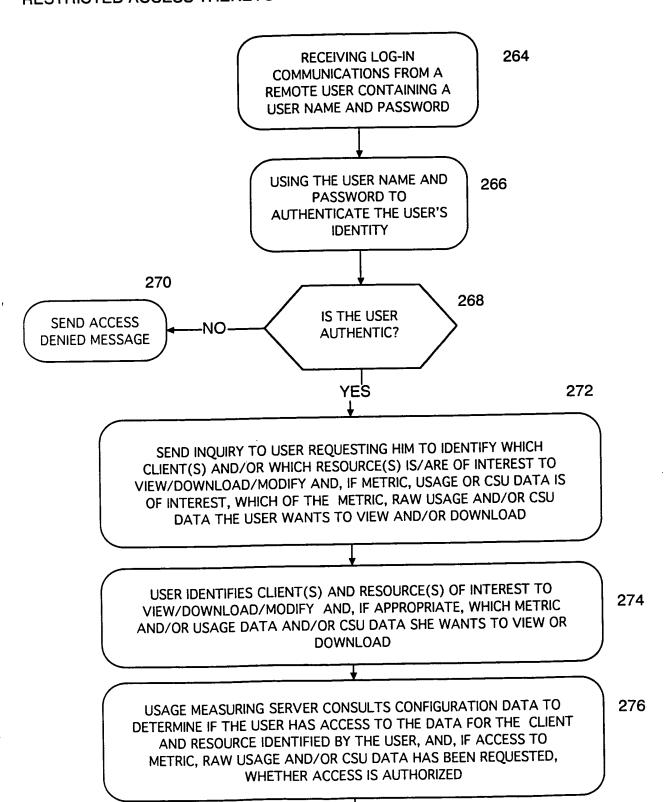


FIG. 9A

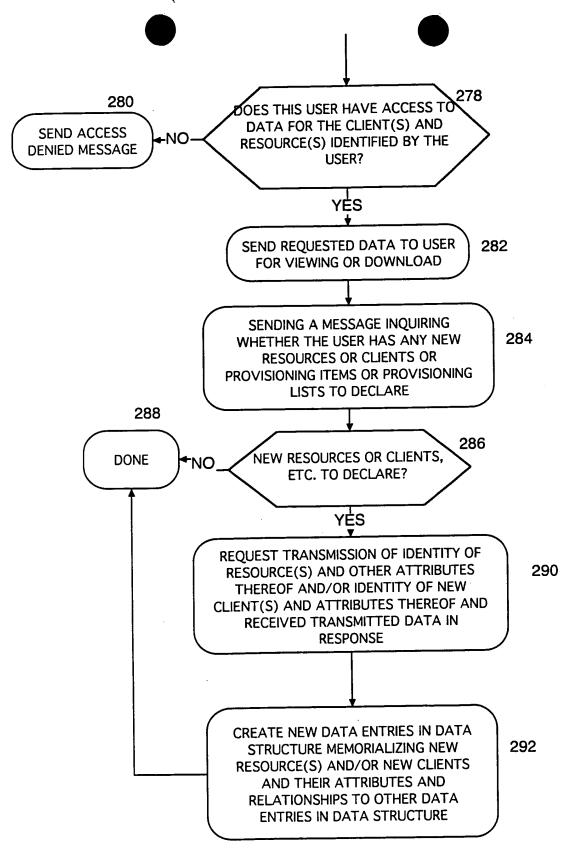
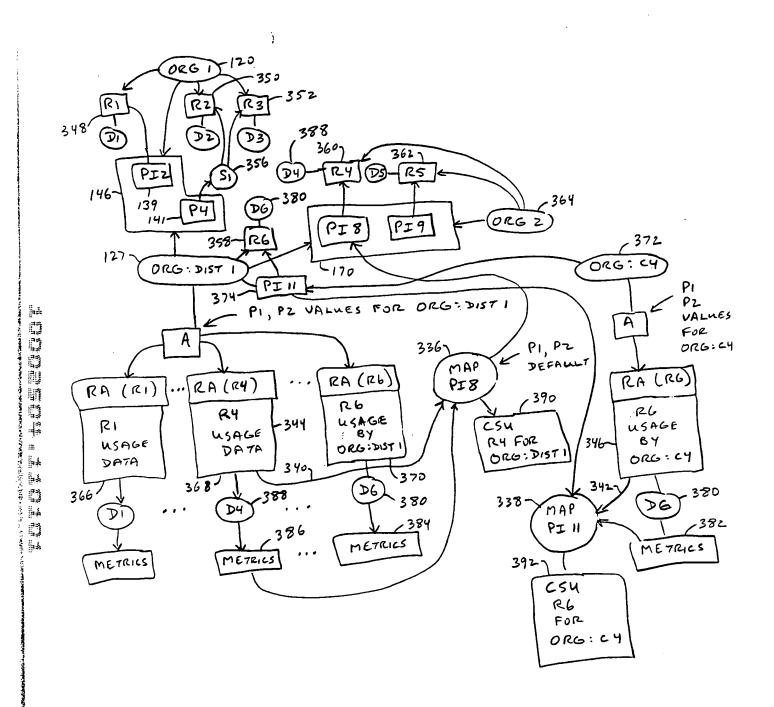


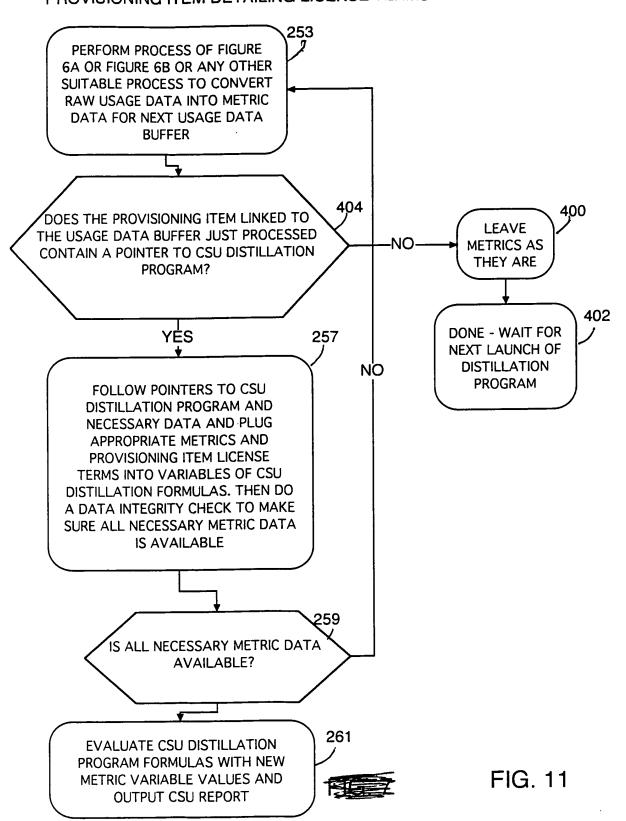
FIG. 9B



F16.10

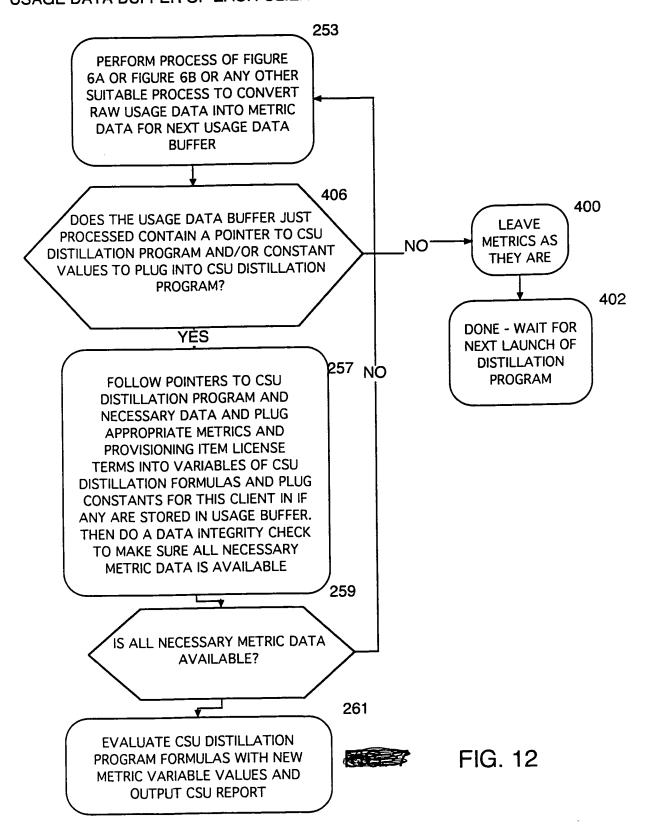
ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS

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ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS

**L** 



# PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

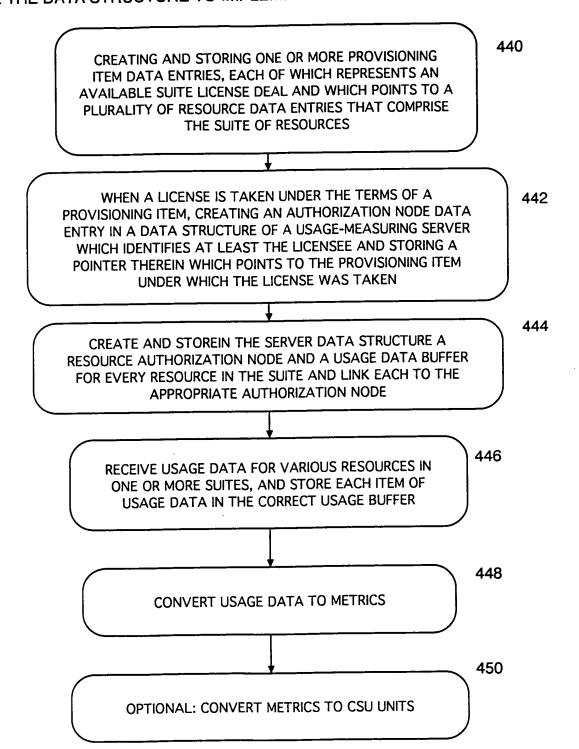


FIG. 13

ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE 480 470 SERVER FOLLOWS POINTERS CUSTOMER LOGS IN AND PROVIDES FROM SELECTED RESOURCE **AUTHENTICATION USER NAME AND** DATA ENTRY TO ALL **PASSWORD** PROVISIONING ITEMS THAT POINT TO SAID RESOURCE DATA ENTRY AND WHICH 472 RECORD AN AVAILABLE **USAGE MEASURING SERVER** LICENSE FROM A VENDOR OR **AUTHENTICATES USER AND** DISTRIBUTOR OF THAT TRANSMITS DATA TO USER RESOURCE PROVIDING A WEB INTERFACE WHICH ALLOWS USER TO SELECT A LINK OR ISSUE A COMMAND TO 482 SHOP ALL AVAILABLE DEALS SERVER ACCESSES LICENSING **TERM DATA IN EACH** PROVISIONING ITEM AND SENDS MESSAGE(S) TO **USAGE MEASURING SERVER** 474 CLIENT LISTING EACH TRANSMITS DATA TO DISPLAY A AVAILABLE LICENSE AND ITS LIST OF ALL RESOURCES AVAILABLE **TERMS** FOR LICENSING 484 476 **USER PICKS A RESOURCE TO** CLIENT SELECTS A LICENSE SHOP AND CLICKS ON IT OR AND SENDS A MESSAGE BACK OTHERWISE SENDS A MESSAGE TO INDICATE SELECTION 486 **OPTIONAL: SERVER RECEIVES** 478 SERVER RECEIVES MESSAGE **MESSAGE AND** SELECTING RESOURCE AND **AUTOMATICALLY ESTALISHES** ACCESSES DATA ENTRY FOR AN AUTHORIZATION NODE FOR SELECTED RESOURCE THAT CLIENT LINKED TO THE PROVISIONING ITEM FOR THE SELECTED LICENSE DEAL AND **AUTOMATICALLY CREATES A RESOURCES AUTHORIZATION** NODE AND USAGE DATA **BUFFER FOR EACH RESOURCE** LICENSED UNDER THE **PROVISIONING ITEM486** 

N. 174

FIG. 14

14

FIG. 15

### PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS AND GENERATE METRICS THEREFROM

USE AGENT PROGRAM TO COLLECT USAGE DATA ON EACH 544 RESOURCE AND TIME AND DATE OF EACH USE AND SENDING THE USAGE DATA TO THE USAGE MEASURING SERVER DIRECTLY OR INDIRECTLY 546 USAGE MEASURING SERVER RECEIVES USAGE DATA FOR EACH RESOURCE BY EACH CLIENT AND STORES IT IN THE APPROPRIATE TIME COMPARTMENT OF THE APPROPRIATE **USAGE DATA BUFFER** 548 USAGE MEASURING SERVER DETERMINES IN ANY WAY WHEN IT IS TIME TO RUN A DISTILLATION PROGRAM FOR A PARTICULAR TIME SEGMENT SUCH AS BY CHECKING CONFIGURATION DATA SETTING A SCHEDULE FOR EXECUTION OF THE DISTILLATION PROGRAM 550 SERVER LAUNCHES DISTILLATION PROGRAM FOR PARTICULAR RESOURCE FOR WHICH USAGE DATA HAS BEEN COLLECTED AND PARTITIONED AND ASSIGNS IT TO PROCESS THE USAGE DATA FOR A PARTICULAR TIME **SEGMENT** 552 DISTILLATION PROGRAM RETRIEVES THE USAGE DATA AND LICENS TERMS IF NECESSARY FOR THE PARTICULAR TIME SEGMENT FOR WHICH IT IS EXECUTING, PLUGS THE DATA INTO THE APPROPRIATE FORMULAS AND CONVERTS THE DATA TO METRICS BY **EVALUATING THE FORMULAS** 554 DISTILLATION PROGRAM STORES METRICS JUST CALCULATED FOR TIME SEGMENT OF INTEREST IN A MEMORY PORTION DEDICATED TO STORING METRICS FOR THAT TIME SEGMENT

FIG. 16

an angles of CALVANA CONTROL C

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F	1	G	-	1	7

PREFERRED	ROLLUP	ß	ID 50

MON	TUES	MED	<u> </u>
10	4	2	
500	120	40	
759	210	96	

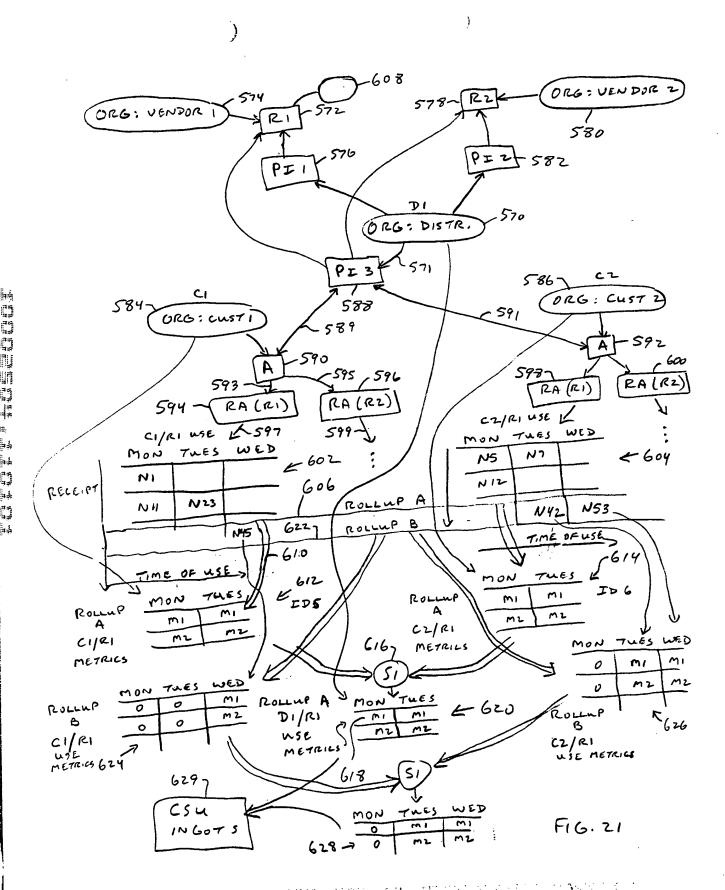
FIG. 19

	ALTERN COLLUP TUES	B ID 40 WED
0	3	2
0	70	40
	139	96
	1	_

FIG. 18

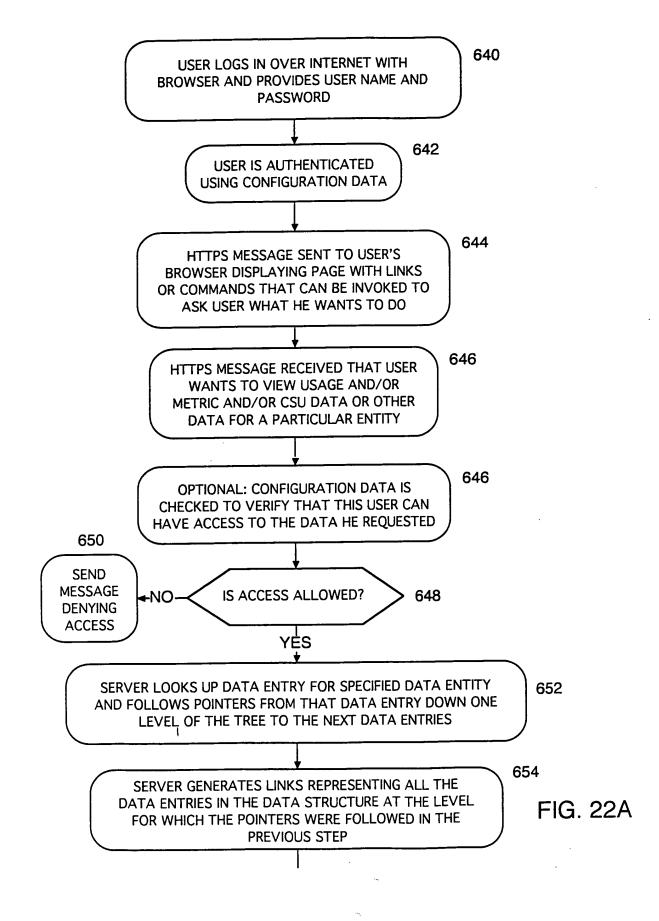
ALTE ROI MON	LUP B TUES	ID 40 WED
0	4	2
0	120	40
0	210	96
V	1	

F16.20



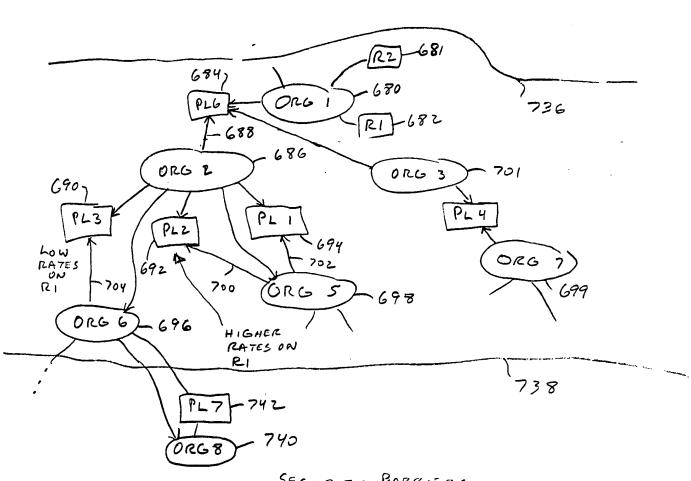
### PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSU DATA FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER

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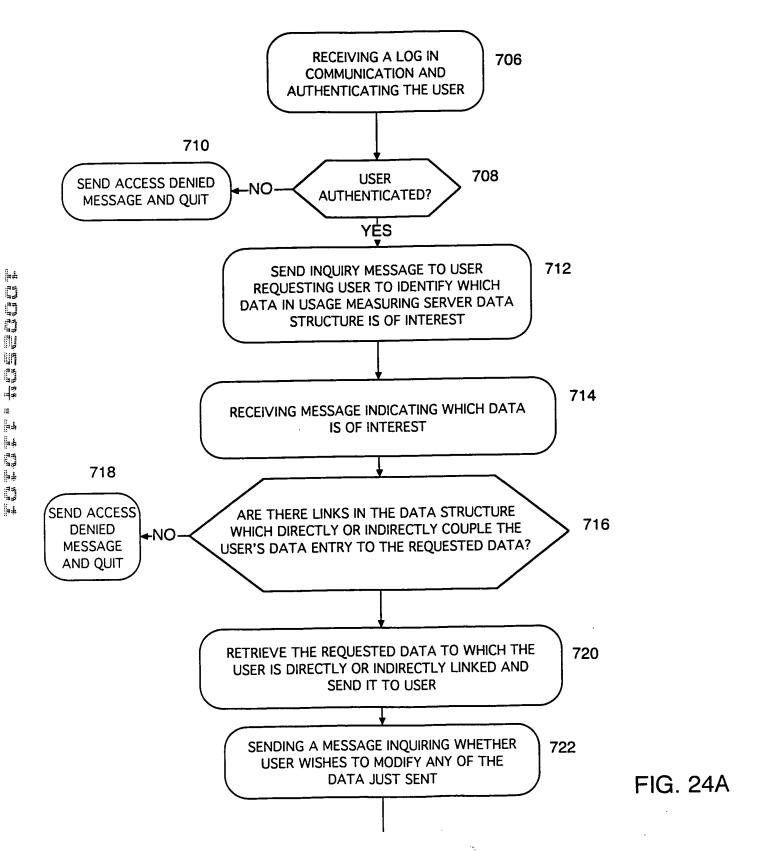


**L**.

FIG. 22B



SECURITY BARRIERS FIG. 23



:2

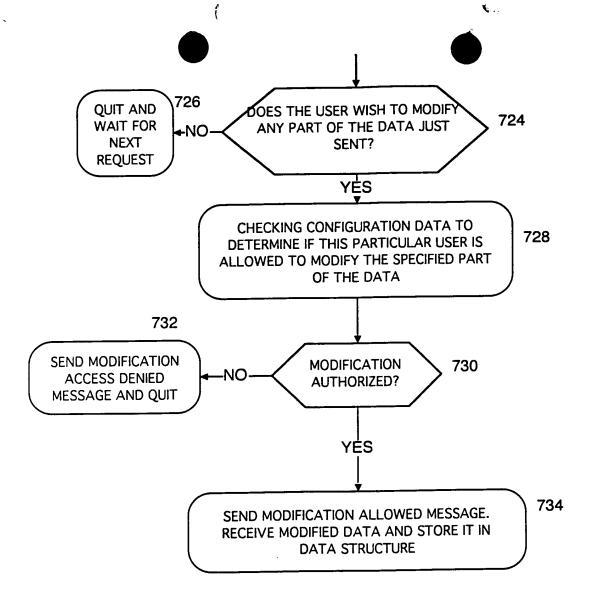
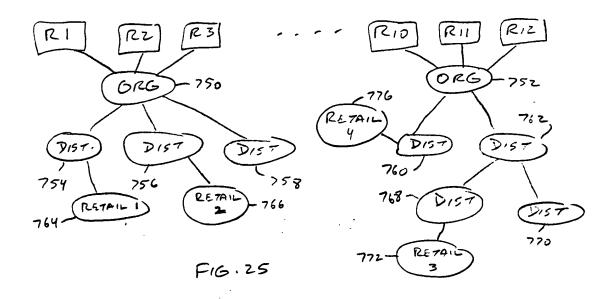
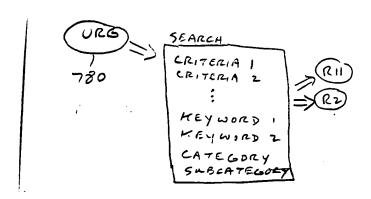
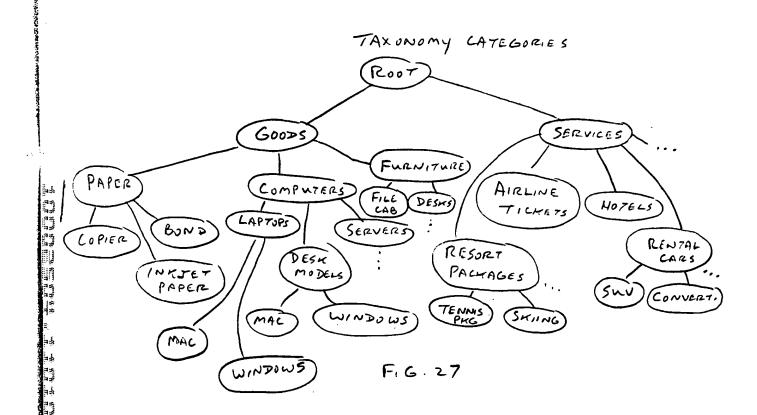


FIG. 24B





F16.26



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# SERVER PROCESSING TO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA

**(** :

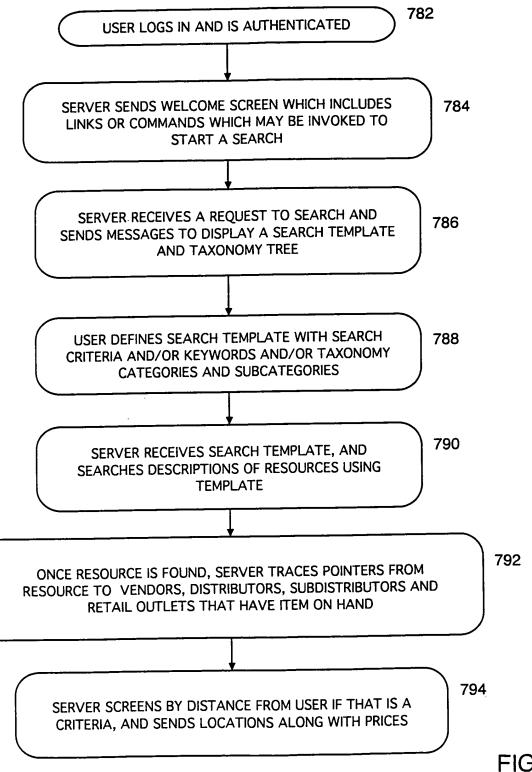


FIG. 28